

ABSTRACT OF THE DISCLOSURE

[0074] A key for selectively allowing access to an enclosure having an unpowered lock and a lock controller is disclosed. The key comprises: a housing. Located within the housing are: a processor operative to build variable signals for transmission from the key to the lock controller and to interpret the variable signals received by the key from the lock controller; a storage device in communication with the processor, the storage device operative to store data for building and interpreting the variable signals being alternately transmitted between the key and the lock controller for validating that the key is authorized to access the enclosure; a data transmitter in communication with the processor, the data transmitter operative to wirelessly transmit signals from the key to the lock controller, to inductively transmit an access request signal to the lock controller upon proper alignment with the lock controller, and to transmit an interrogation response signal in response to receiving to a variable interrogation request; a data receiver in communication with the processor, the data receiver operative to receive the variable interrogation signal; and a power transmitter in communication with the processor for wirelessly transmitting power to the lock controller simultaneously with the transmission of data.

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